Santa Barbara, CA

COMMUNICATION

Information concerning the workshop is distributed via the (low-volume, moderated) pde-announce@step.nasa.gov mailing list. To subscribe please go to:
http://step.nasa.gov/mailman/listinfo/pde-announce

TIME TABLE

March 23, 2007: Primary deadline for abstract submission
March 30, 2007: Notification to authors
April 20, 2007:   Deadline for presentation submission
May 1, 2007:   Welcome reception 5-7 PM
May 2-4, 2007:   Workshop

COMMITTEES

NASA and ESA Organizers

Hans Peter de Koning (ESA/ESTEC) ESA General Chair
Georg Siebes (NASA-JPL) Communications Chair
Steve Waterbury (NASA-GSFC) NASA General Chair

Local Organizers – Sponsor (Mentor Graphics Corp.)

Farrokh Shoar (NASA-JPL) Local Co-Chair, Farrokh.F.Shoar@jpl.nasa.gov
Georg Siebes (NASA-JPL) Local Co-Chair, Georg.Siebes@jpl.nasa.gov
Dave Van (Mentor Graphics) Sponsor & Executive host

Advisory Panel

Farrokh Shoar (NASA-JPL)
Peter Denno (NIST)
Harald Eisenmann (EADS Astrium)
Keith Hunten (Lockheed Martin)
Eric Lebegue (CSTB)
Russell Peak (Georgia Tech)
Greg Smith (Boeing)

Call for Presentations

PDE 2007
The 9th NASA-ESA Workshop on Product Data Exchange (PDE)
www.mentor.com/nasa-pde

May 2-4, 2007, Santa Barbara, California, U.S.A.

Hosted by Mentor Graphics Corp.

2007 Theme:
Open Standards Enabling
World-wide Engineering and Manufacturing

The Workshop for Open Product/System Lifecycle Management (PLM)

Also known in previous years as *"The STEP for Aerospace Workshop"* and *"The Aerospace Product Data Exchange (APDE) Workshop"*. For information and download of presentations from previous workshop please visit http://step.nasa.gov.

You are invited to participate in the 9th NASA-ESA Product Data Exchange (PDE) Workshop, which is jointly organized by the National Aeronautics and Space Administration (NASA), the European Space Agency (ESA), an international advisory panel, and the local host.

This year the workshop is hosted by the Mentor Graphics Corp., a technology leader in electronic design automation (EDA) providing software and hardware design solutions that enable companies to develop better electronic products faster and more cost-effectively.

This event is preceded by eight highly successful annual workshops, alternating between the US and Europe. Over the years the workshop scope has evolved to reflect enhanced community understanding and interests regarding problem scope and promising solutions. Yet the core theme has remained the same: open standards to represent and manage information, and to share knowledge for enhanced collaboration throughout the product/system lifecycle.

The program will be similar to previous PDE workshops: an opening evening reception followed by three days of presentations, plenary keynotes and discussions, networking opportunities, and "birds of a feather" meetings. Further information on keynotes, special sessions, and the program will be made available in due course.

OBJECTIVES

- To bring developers, implementers and users together to share experience obtained in the development, implementation, deployment and operational use of such standards.

- To provide an international forum to discuss methods and technology for the reliable capture, management, exchange, and long term archival of product/system information, especially through the use of open standards.

- To identify or showcase PLM interoperability standards that can be used in complex system applications, including cross-fertilization between standards/methods developed in different industry sectors.

- To identify gaps where new standards need to be developed or existing ones need to be extended, and to bring together the people to foster such initiatives.

- To encourage development and growth of model-based design and verification using open standards.

TOPICS

- Open PLM standards as enablers for multi-disciplinary integrated product development teams and advanced engineering analysis and simulation:
  - Collaborative "e-engineering" scenarios
  - Advances in robust industrial CAD, CAE, CAM and PDM interoperability based on open standards such as ISO 10303 (STEP) and OMG PLM Services
  - Linking systems engineering, mechanical design (CAD), analysis & simulation (CAE, FEA, CFD, discrete event, real-time, ...), testing, manufacturing (CAM), deployment and operation
- Success stories and issues (e.g. lessons learned) in developing, implementing and/or using open standards to support PLM
- Thematic sessions on PLM standards in the domains:
  - Systems engineering, with a special focus on STEP AP233 and SysML
  - Electro-Mechanical/Mechatronics, with a special focus on STEP AP210 and AP212
- Reliable long-term archival and re-use of information for complex systems
- Methods blending two or more information / knowledge / data modeling / ontology technologies, in particular integration and transformation of data models among technologies (e.g. OMG's Model Driven Architecture (MDA), MOF/XMI, UML/OCL/SysML/XMI, STEP EXPRESS/EXPRESS-X, XML Schema, RelaxNG, RDF, OWL)

- Methods that join open standards and the open source software (OSS) development model to enhance implementations (e.g. combining Eclipse EMF with UML/OCL, EXPRESS, MDA/QVT transformations, etc.)
- Web-based methods and infrastructure for PLM
- Sustainability of open solutions, including total cost of usage/ownership, stakeholder win-win mechanisms, and balancing openness versus business viability and competitive advantage
- Information-centric approaches to data management by means of eCAD PDM. Making information available at the engineering desktop, anywhere, at anytime. Using xCAD PDM integration to PLM to bridge the design chain and extended enterprise for optimal design and resource management.

CALL FOR PAPERS AND PRESENTATIONS

Workshop participants may submit full papers or one page abstracts & presentations. Submission and publication will be on-line at www.mentor.com/nasa-pde .

The deadline for the submission is **March 23, 2007**. Abstracts submitted after that date will only be accepted if time and space permit.

The abstract form will guide you through the different steps like:

- Contact details
- Title of the abstract and abstract text
- List of authors

Participants are invited to contact the organizers (Farrokh Shoar or Georg Siebes) with ideas for presentations and/or demonstrations.

VENUE and REGISTRATION

The workshop venue is **Fess Parker's Double Tree Resort**, 633 East Cabrillo Boulevard, Santa Barbara, CA 93103, U.S.A., http://www.fpdtr.com

Hotel reservation details and the on-line registration form are available at www.mentor.com/nasa-pde .

Early hotel reservation is STRONGLY recommended, as Santa Barbara is a popular place throughout the year. Preferential group rates have been negotiated.

The workshop fee is $400 and includes:

- three lunches (May 2nd, 3rd, 4th)
- the group dinner (May 3rd evening)
- Conference room facilities, breaks coffee, tea, soda and pastries at the Fess Parker's Resort.

The fee should be paid directly to the local organizer, Mentor Graphics, via one of the methods specified on the workshop website.